Marine Life Protection Act Initiative



Habitat Evaluations of the Round 3 NCRSG MPA Proposal for the North Coast Study Region

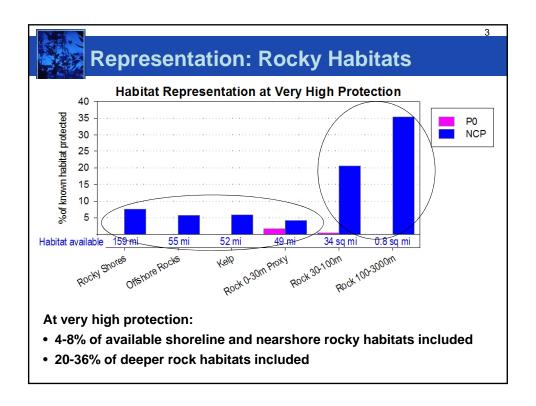
Presentation to the MLPA Blue Ribbon Task Force October 25, 2010 • Fortuna, CA

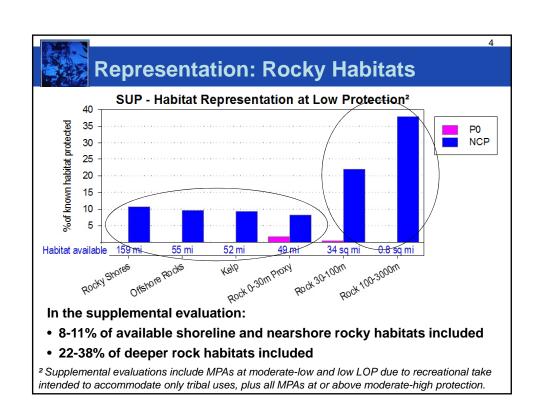
Dr. Mark Carr, Co-chair • MLPA Master Plan Science Advisory Team

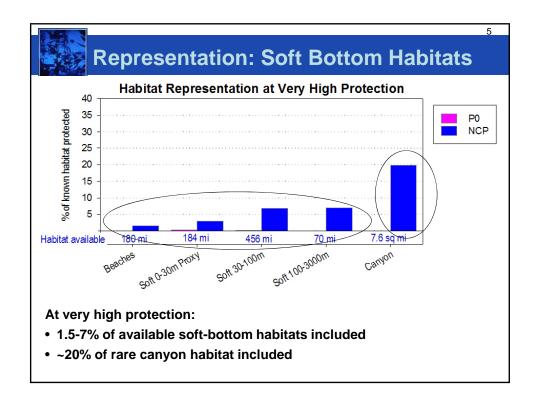
Notes on Round 3 Evaluations

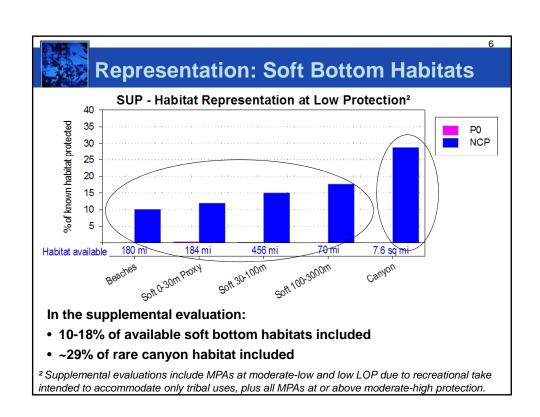
• Results presented for very high protection MPAs:

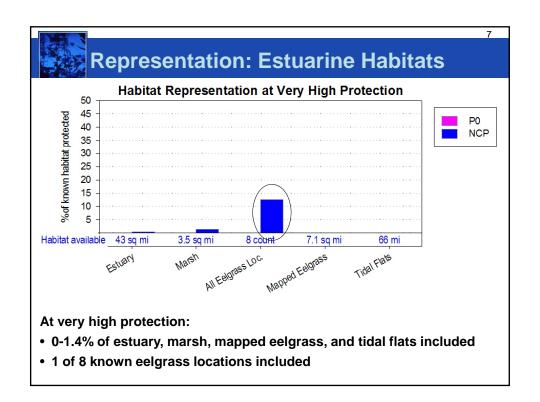
- No high protection MPAs were included in the Round 3 NCRSG MPA proposal (NCP), thus evaluations at high protection are omitted from all evaluation materials
- Only one mod-high protection MPA proposed, thus evaluations at mod-high protection are omitted from this presentation but included in other evaluation materials
- Supplemental evaluation (labeled SUP) requested by MLPA Blue Ribbon Task Force includes:
 - All MPAs or state marine recreational management areas (SMRMAs) at moderate-high protection or above
 - MPAs below moderate-high protection if the only proposed uses that reduced level of protection (LOP) below moderatehigh were those intended to accommodate tribal uses

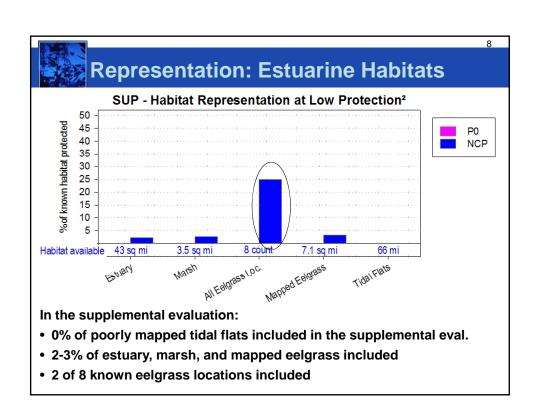


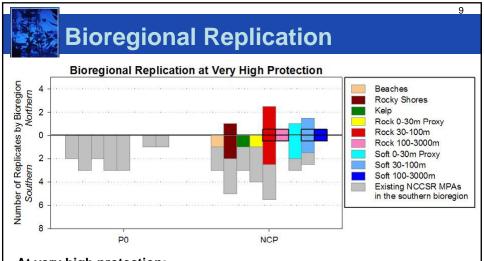






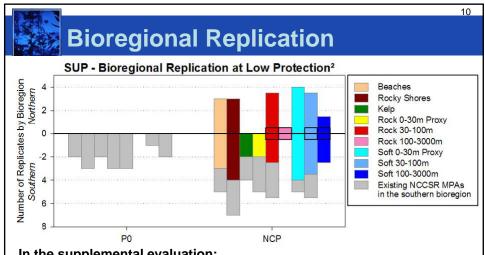






At very high protection:

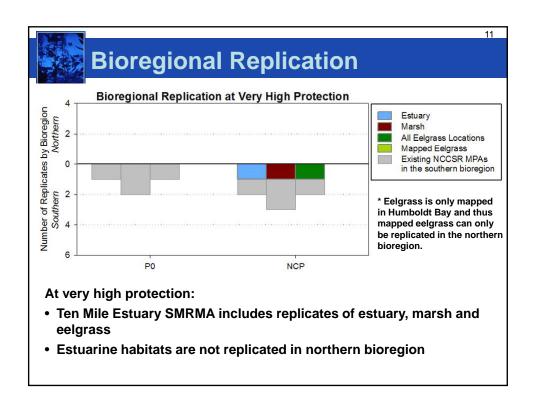
- Three habitats: beaches, kelp, and 0-30m rock not replicated in northern bioregion
- Rare 100-3000m rock and soft bottom habitats replicated in only one MPA that falls on bioregional divide

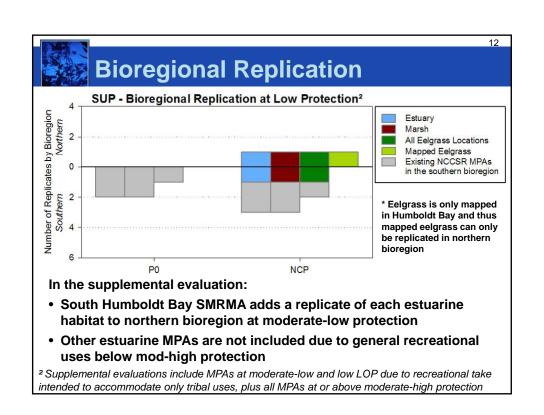


In the supplemental evaluation:

- Two habitats: kelp and 0-30m rock are not replicated in northern bioregion
- Rare 100-3000m rock is replicated only in one MPA that falls on bioregional divide

² Supplemental evaluations include MPAs at moderate-low and low LOP due to recreational take intended to accommodate only tribal uses, plus all MPAs at or above moderate-high protection.





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Summary of Habitat Evaluations

Guidelines Achieved



At or above mod-high protection:

- All key habitats, except tidal flats, are represented to some extent (1-36% of available)
- All key habitats meet replication guidelines at biogeographic scale (3-5 replicates), and at least one replicate of each is included in the MLPA North Coast Study Region (NCSR)
- Six of 12 key habitats have at least one replicate in both northern and southern bioregions: rocky shores, rock 30-100m, rock 100-3000m, soft 0-30m, soft 30-100m, soft 100-3000m



Summary of Habitat Evaluations

Guidelines Achieved (continued...)



Supplemental evaluation²:

- All key habitats, except tidal flats, are represented to some extent (2-38% of available)
- All key habitats meet replication guidelines at biogeographic scale (3-5 replicates), and at least one replicate of each is included in the NCSR
- 10 of 12 key habitats have at least one replicate in both northern and southern bioregions: beaches, rocky shores, rock 30-100m, rock 100-300m, soft 0-30m, soft 30-100m, soft 100-3000m, estuary, marsh and eelgrass

² Supplemental evaluations include MPAs at moderate-low and low LOP due to recreational take intended to accommodate only tribal uses, plus all MPAs at or above moderate-high protection





Summary of Habitat Evaluations

Guidelines Not Achieved



At or above mod-high protection:

- Tidal flats are not represented within the NCSR (poorly mapped)
- Beaches, kelp, and rock 0-30m are not replicated in the northern bioregion of the NCSR
- Estuarine habitats (estuary, marsh, and eelgrass) are not replicated in the northern bioregion of the NCSR



Supplemental evaluation²:

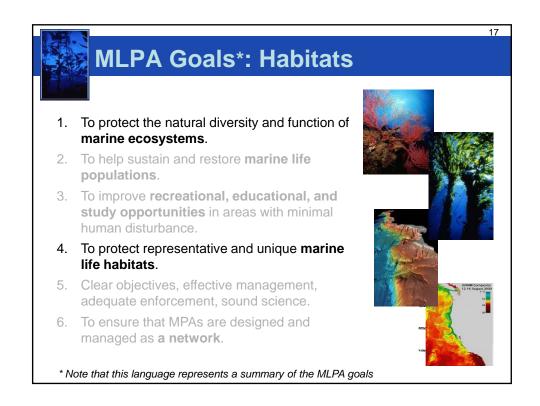
- Tidal flats are not represented within the NCSR (poorly mapped)
- Kelp and rock 0-30m are not replicated in the northern bioregion of the NCSR
- ² Supplemental evaluations include MPAs at moderate-low and low LOP due to recreational take intended to accommodate only tribal uses, plus all MPAs at or above moderate-high protection.

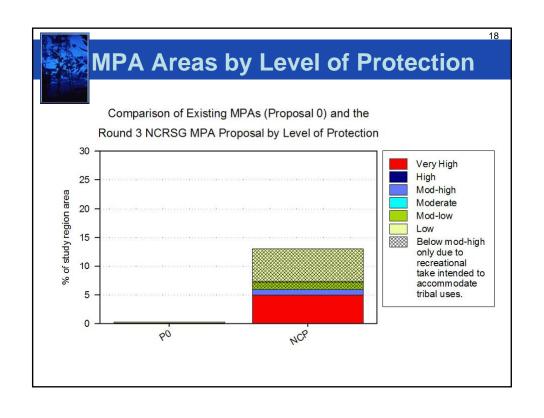


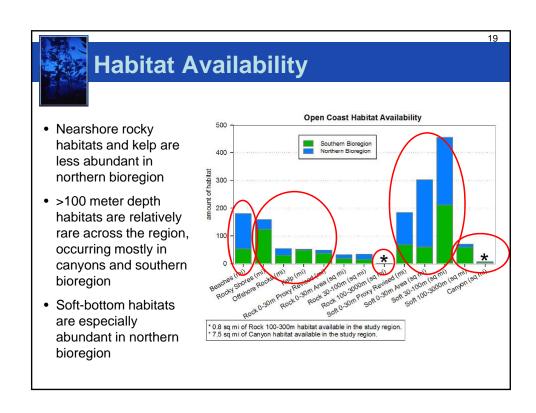
Background Information

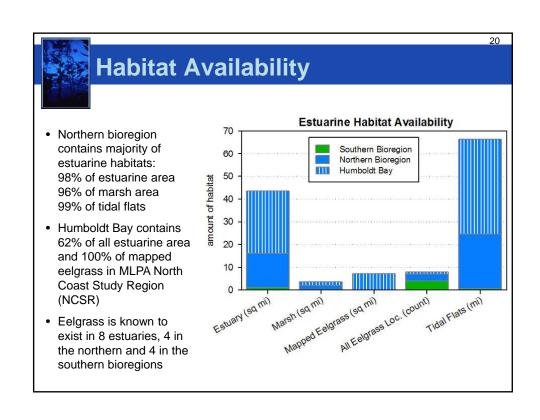
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The following slides include background information that will not be presented.











Representation: Mod-high Protection

- Only one moderate-high protection MPA in study region: Point St. George Reef SMCA
- Contributes slightly to representation of several habitats:
 - Adds ~1% rock 30-100 meter (m)
 - Adds ~1.5% soft 30-100m
 - Adds ~2.5% soft 100-3000m
 - Does not contribute to representation of shoreline, nearshore, or estuarine habitats
- Graphs at moderate-high protection are included in evaluation document



Replication: Mod-high Protection

- Only one moderate-high protection MPA in the study region: Point Saint George Reef SMCA
- Contributes 1 replicate of several habitats:
 - rock 30-100m
 - soft 30-100m
 - soft 100-3000m
 - Does not contribute to replication of shoreline, nearshore, or estuarine habitats
- Graphs at moderate-high protection are included in the evaluation document

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